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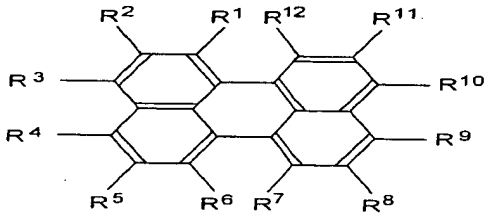
AMENDMENT AND RESPONSE

In response to the Office Action mailed June 9, 2003, entry of the following amendments is respectfully requested in order to place the application in condition for allowance.

In the Claims

Amend claims 1, 7, 8, and 18 as follows:

1. (Twice Amended) An organic electroluminescent (EL) device comprising an anode, a cathode, and one or more organic thin-film layers including a light-emitting layer sandwiched between the anode and the cathode, at least one of the organic thin-film layers including a perylene compound represented by a general formula [1] as follows:



[1]

wherein each of R^1 to R^{12} independently represents a hydrogen atom, a halogen atom, hydroxy group, substituted or non-substituted amino group, nitro group, cyano group, substituted or non-substituted alkyl group, substituted or non-substituted alkenyl group, substituted or non-substituted styryl group, substituted or non-substituted cycloalkyl group, substituted or non-substituted alkoxy group, substituted or non-substituted aromatic hydrocarbon group, substituted or non-substituted aromatic heterocyclic group, substituted or non-substituted aralkyl group or substituted or non-substituted aryloxy group; any two of R^1 to R^{12} may form a ring; however~~, at least one~~ one or two of R^1 to R^{12} is a diarylamino group represented by $-NAr^1Ar^2$ (each of Ar^1 and Ar^2 represents substituted or non-substituted aromatic hydrocarbon group or substituted or

non-substituted aromatic heterocyclic group), and at least one of the R^1 to R^{12} other than the diarylamino group is a group with steric hindrance for suppressing aggregation of molecules,

wherein the group with steric hindrance included in the general formula [1] is a substituted or non-substituted alkyl group having not less than four carbon atoms, a substituted or non-substituted cycloalkyl group, a substituted or non-substituted alkoxy group, a substituted or non-substituted aromatic heterocyclic group, a substituted or non-substituted aralkyl group or a substituted or non-substituted aryloxy group.

2. (Previously Presented) The organic EL device as defined in claim 1, wherein at least one of A^1 and Ar^2 has substituted or non-substituted styryl group as a substituent.

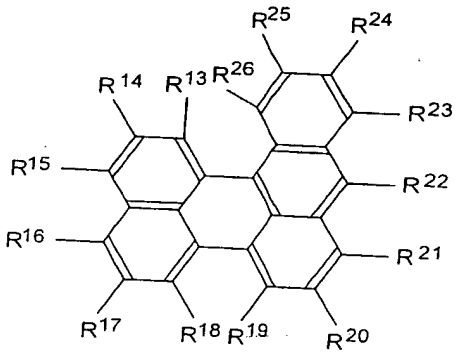
3. (Previously Presented) The organic EL device as defined in claim 1, wherein the organic thin-film layers have at least a light-emitting layer including the compound represented by the general formula [1] either singly or as a mixture.

4. (Previously Presented) The organic EL device as defined in claim 1, wherein the organic thin-film layers have at least a hole transporting layer including the compound represented by the general formula [1] either singly or as a mixture.

5. (Previously Presented) The organic EL device as defined in claim 1, wherein the organic thin-film layers have at least an electron transporting layer including the compound represented by the general formula [1] either singly or as a mixture.

6. (Previously Presented) The organic EL device as defined in claim 1, wherein the group with steric hindrance included in the general formula [1] is the substituted or non-substituted alkyl group, the substituted or non-substituted cycloalkyl group, the substituted or non-substituted alkoxy group, the substituted or non-substituted aromatic hydrocarbon group, the substituted or non-substituted aromatic heterocyclic group, the substituted or non-substituted aralkyl group or the substituted or non-substituted aryloxy group.

7. (Twice Amended) An organic EL device comprising an anode, a cathode, and one or more organic thin-film layers including a light-emitting layer sandwiched between the anode and the cathode, at least one of the organic thin-film layers including[, either singly or as a mixture,] a benzoperylene compound represented by a general formula [2] as follows:



(2) [2]

wherein each of R^{13} to R^{26} independently represents a hydrogen atom, a halogen atom, hydroxyl group, substituted or non-substituted amino group, nitro group, cyano group, substituted or non-substituted [aklyl] alkyl group having not less than four carbon atoms, substituted or non-substituted alkenyl group, substituted or non-substituted styryl group, substituted or non-substituted cycloalkyl group, substituted or non-substituted alkoxy group, substituted or non-substituted aromatic hydrocarbon group, substituted or non-substituted aromatic heterocyclic

group, substituted or non-substituted aralkyl group or substituted or non-substituted aryloxy group; and two of R^{13} to R^{26} may form a ring; and at least one of R^{13} to R^{26} is a group with steric hindrance for suppressing aggregation of molecules,

wherein the group with steric hindrance included in the general formula [2] is a substituted or non-substituted alkyl group, a substituted or non-substituted cycloalkyl group, a substituted or non-substituted alkoxy group, a substituted or non-substituted aromatic heterocyclic group, a substituted or non-substituted aralkyl group, or a substituted or non-substituted aryloxy group.

8. (Amended) The organic EL device as defined in claim 7, wherein at least one of R^{13} to R^{26} is a diarylamino group represented by $-NAr^1Ar^2$ (each of Ar^1 and Ar^2 represents non-substituted aromatic hydrocarbon group or substituted aromatic heterocyclic group)[, and the group with steric hindrance is other than the diarylamino group].

9. (Previously Presented) The organic EL device as defined in claim 8, wherein at least one of A^1 and Ar^2 has substituted or non-substituted styryl group as a substituent.

10. (Previously Presented) The organic EL device as defined in claim 7, wherein the organic thin-film layers have at least a light-emitting layer including the compound represented by the general formula [2] either singly or as a mixture.

11. (Previously Presented) The organic EL device as defined in claim 7, wherein the organic thin-film layers have at least a hole transporting layer including the compound represented by the general formula [2] either singly or as a mixture.

12. (Previously Presented) The organic EL device as defined in claim 7, wherein the organic thin-film layers have at least an electron transporting layer including the compound represented by the general formula [2] either singly or as a mixture.

13. (Previously Presented) The organic EL device as defined in claim 1, wherein the group with steric hindrance included in the general formula [2] is the substituted or non-substituted alkyl group, the substituted or non-substituted cycloalkyl group, the substituted or non-substituted alkoxy group, the substituted or non-substituted aromatic hydrocarbon group, the substituted or non-substituted aromatic heterocyclic group, the substituted or non-substituted aralkyl group or the the substituted or non-substituted aryloxy group.

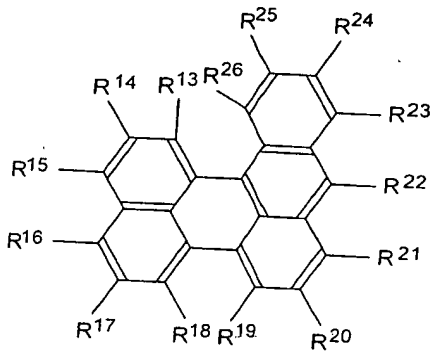
14. (Previously Presented) The organic EL device as defined in claim 1, wherein the group with steric hindrance is adamantyloxy, adamantyl, t-butyl or t-butoxy.

15. (Previously Presented) The organic EL device as defined in claim 1, wherein the steric hindrance group is adamantyloxy or t-butoxy.

16. (Previously Presented) The organic EL device as defined in claim 1, wherein at least two of R^{13} to R^{26} are adamantyloxy or t-butoxy.

17. (Previously Presented) The organic EL device as defined in claim 7, wherein the group with steric hindreance is adamantyloxy, adamantyl, t-butyl, t-butoxy or phyenyloxy.

18. (Amended) An organic EL device comprising an anode, a cathode, and one or more organic thin-film layers including a light-emitting layer sandwiched between the anode and the cathode, at least one of the organic thin-film layers including[, either singly or as a mixture,] a benzoperylene compound represented by a general formula [2] as follows:



(2) [2]

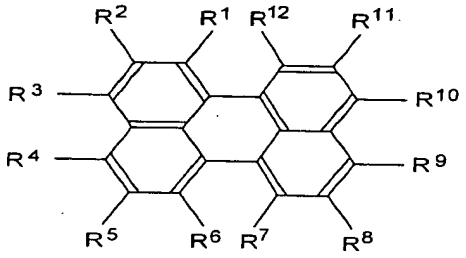
wherein each of R^{13} to R^{26} independently represents a hydrogen atom, a halogen atom, hydroxyl group, substituted or non-substituted amino group, nitro group, cyano group, substituted or non-substituted [aklyl] alkyl group having not less than four carbon atoms, substituted or non-substituted alkenyl group, substituted or non-substituted styryl group, substituted or non-substituted cycloalkyl group, substituted or non-substituted alkoxy group, substituted or non-substituted aromatic hydrocarbon group, substituted or non-substituted aromatic heterocyclic group, substituted or non-substituted aralkyl group or substituted or non-substituted aryloxy group; and two of R^{13} to R^{26} may form a ring; and at least one of R^{13} to R^{26} is a group with steric hindrance for suppressing aggregation of molecules,

wherein the group with steric hindrance included in the general formula [2] is a substituted or non-substituted alkyl group, a substituted or non-substituted cycloalkyl group, a substituted or non-substituted alkoxy group, a substituted or non-substituted aromatic heterocyclic group, a substituted or non-substituted aralkyl group, or a substituted or non-substituted aryloxy group,

wherein the group with steric hindrance is adamantyl.

Please add claims 19 and 20 as follows:

19. (New) An organic electroluminescent (EL) device comprising an anode, a cathode, and one or more organic thin-film layers including a light-emitting layer sandwiched between the anode and the cathode, at least one of the organic thin-film layers including a perylene compound represented by a general formula [1] as follows:



[1]

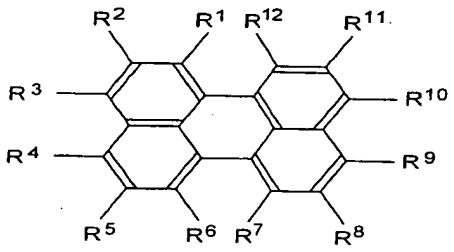
wherein each of R^1 to R^{12} independently represents a hydrogen atom, a halogen atom, hydroxy group, substituted or non-substituted amino group, nitro group, cyano group, substituted or non-substituted alkyl group, substituted or non-substituted alkenyl group, substituted or non-substituted styryl group, substituted or non-substituted cycloalkyl group, substituted or non-substituted alkoxy group, substituted or non-substituted aromatic hydrocarbon group, substituted

or non-substituted aromatic heterocyclic group, substituted or non-substituted aralkyl group or substituted or non-substituted aryloxy group; any two of R^1 to R^{12} may form a ring; however, one or two of R^1 to R^{12} is a diarylamino group represented by $-NAr^1Ar^2$ (each of Ar^1 and Ar^2 represents substituted or non-substituted aromatic hydrocarbon group or substituted or non-substituted aromatic heterocyclic group), and at least one of the R^1 to R^{12} other than the diarylamino group is a group with steric hindrance for suppressing aggregation of molecules,

wherein the group with steric hindrance included in the general formula [1] is a substituted or non-substituted alkyl group having not less than four carbon atoms, a substituted or non-substituted cycloalkyl group, a substituted or non-substituted aralkyl group or a substituted or non-substituted aryloxy group,

wherein the perylene compound represented by formula [1] is used in combination with other compounds.

20. (New) An organic electroluminescent (EL) device comprising an anode, a cathode, and one or more organic thin-film layers including a light-emitting layer sandwiched between the anode and the cathode, at least one of the organic thin-film layers including a perylene compound represented by a general formula [1] as follows:



[1]

wherein each of R^1 to R^{12} independently represents a hydrogen atom, a halogen atom, hydroxy group, substituted or non-substituted amino group, nitro group, cyano group, substituted or non-substituted alkyl group, substituted or non-substituted alkenyl group, substituted or non-substituted styryl group, substituted or non-substituted cycloalkyl group, substituted or non-substituted alkoxy group, substituted or non-substituted aromatic hydrocarbon group, substituted or non-substituted aromatic heterocyclic group, substituted or non-substituted aralkyl group or substituted or non-substituted aryloxy group; any two of R^1 to R^{12} may form a ring; however, one or two of R^1 to R^{12} is a diarylamino group represented by $-NAr^1Ar^2$ (each of Ar^1 and Ar^2 represents substituted or non-substituted aromatic hydrocarbon group or substituted or non-substituted aromatic heterocyclic group), and at least one of the R^1 to R^{12} other than the diarylamino group is a group with steric hindrance for suppressing aggregation of molecules,

wherein the group with steric hindrance included in the general formula [1] is a substituted or non-substituted alkyl group having not less than four carbon atoms, a substituted or non-substituted cycloalkyl group, a substituted or non-substituted alkoxy group, a substituted or non-substituted aromatic heterocyclic group, a substituted or non-substituted aralkyl group or a substituted or non-substituted aryloxy group,

wherein the perylene compound represented by formula [1] is used in alone and not in combination with other compounds.